Department table

Create table department(

Dno Integer NOT NULL,

Dname Varchar(50),

Location Varchar(50),

primary key(Dno))

Displaying table using command

desc department

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
| [DEPARTMENT](javascript:ret_Column('BSC.DEPARTMENT');) | [DNO](javascript:ret_Column('DNO');) | NUMBER | 22 | - | 0 | 1 | - | - | - |
|  | [DNAME](javascript:ret_Column('DNAME');) | VARCHAR2 | 50 | - | - | - | nullable | - | - |
|  | [LOCATION](javascript:ret_Column('LOCATION');) | VARCHAR2 | 50 | - | - | - | nullable | - | - |
| |  |  |  | | --- | --- | --- | |  |  | 1 - 3 | | | | | | | | | | |

Commands to insert values in table

Insert into department values(10,'Accounting','New York')

Insert into department values(20,'Research','Dallas');

Insert into department values(30,'Sales','Chicago');

Insert into department values(40,'Operations','Boston');

Insert into department values(50,'Marketing','New Delhi');

Table

|  |  |  |
| --- | --- | --- |
| DNO | DNAME | LOCATION |
| 10 | Accounting | New York |
| 20 | Research | Dallas |
| 30 | Sales | Chicago |
| 40 | Operations | Boston |
| 50 | Marketing | New Delhi |

Employee table

Create table employee(

Eno char(3) NOT NULL,

Ename Varchar(50) NOT NULL,

Jobtype Varchar(50) NOT NULL,

Manager char(3) ,

Hire\_date date NOT NULL,

Dno Integer,

Commission Decimal(10,2),

Salary Decimal(10,2) NOT NULL,

primary key(Eno),

Foreign key (Dno) references department(Dno),

Foreign key (Manager) references employee(Eno))

Displaying table using command

desc employee

Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
| [EMPLOYEE](javascript:ret_Column('BSC.EMPLOYEE');) | [ENO](javascript:ret_Column('ENO');) | CHAR | 3 | - | - | 1 | - | - | - |
|  | [ENAME](javascript:ret_Column('ENAME');) | VARCHAR2 | 50 | - | - | - | - | - | - |
|  | [JOBTYPE](javascript:ret_Column('JOBTYPE');) | VARCHAR2 | 50 | - | - | - | - | - | - |
|  | [MANAGER](javascript:ret_Column('MANAGER');) | CHAR | 3 | - | - | - | nullable | - | - |
|  | [HIRE\_DATE](javascript:ret_Column('HIRE_DATE');) | DATE | 7 | - | - | - | - | - | - |
|  | [DNO](javascript:ret_Column('DNO');) | NUMBER | 22 | - | 0 | - | nullable | - | - |
|  | [COMMISSION](javascript:ret_Column('COMMISSION');) | NUMBER | - | 10 | 2 | - | nullable | - | - |
|  | [SALARY](javascript:ret_Column('SALARY');) | NUMBER | - | 10 | 2 | - | - | - | - |
| |  |  |  | | --- | --- | --- | |  |  | 1 - 8 | | | | | | | | | | |

Commands to insert values into the table

Insert into employee values(783,'King','President',NULL,'11/17/1981',10,0.00,2950.00)

Insert into employee values(769,'Blake','Manager',783,'05/01/1981',30,0.00,2870.00)

Insert into employee values(778,'Clark','Manager',783,'06/09/1981',10,0.00,2900.00)

Insert into employee values(756,'Jones','Manager',783,'04/02/1981',20,0.00,2300.00)

Insert into employee values(752,'Ward','Sales\_man',769,'02/22/1981',30,500.00,1300.00)

Insert into employee values(792,'Ford','Analyst',756,'12/03/1981',20,0.00,2600.00)

Insert into employee values(788,'Scott','Analyst',756,'12/09/1981',20,0.00,2850.00)

Insert into employee values(793,'Miller','Clerk',788,'01/23/1982',40,0.00,1300.00)

Insert into employee values(790,'James','Clerk',769,'12/03/1981',30,0.00,950.00)

Insert into employee values(784,'Turner','Sales\_man',769,'09/08/1981',30,0.00,1450.00)

Insert into employee values(787,'Adams','Clerk',778,'01/12/1983',20,0.00,1150.00)

Insert into employee values(736,'Smith','Clerk',790,'12/17/1980',20,0.00,1000.00)

Insert into employee values(765,'Martin','Sales\_man',769,'04/22/1981',30,1400.00,1250.00)

Employee table

Sql command

select \* from employee

Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ENO | ENAME | JOBTYPE | MANAGER | HIRE\_DATE | DNO | COMMISSION | SALARY |
| 787 | Adams | Clerk | 778 | 01/12/1983 | 20 | 0 | 1150 |
| 778 | Clark | Manager | 783 | 06/09/1981 | 10 | 0 | 2900 |
| 788 | Scott | Analyst | 756 | 12/09/1981 | 20 | 0 | 2850 |
| 756 | Jones | Manager | 783 | 04/02/1981 | 20 | 0 | 2300 |
| 793 | Miller | Clerk | 788 | 01/23/1982 | 40 | 0 | 1300 |
| 790 | James | Clerk | 769 | 12/03/1981 | 30 | 0 | 950 |
| 784 | Turner | Sales\_man | 769 | 09/08/1981 | 30 | 0 | 1450 |
| 783 | King | President | - | 11/17/1981 | 10 | 0 | 2950 |
| 769 | Blake | Manager | 783 | 05/01/1981 | 30 | 0 | 2870 |
| 752 | Ward | Sales\_man | 769 | 02/22/1981 | 30 | 500 | 1300 |
| 749 | Allan | Sales\_man | 769 | 02/20/1981 | 30 | 300 | 2000 |
| 792 | Ford | Analyst | 756 | 12/03/1981 | 20 | 0 | 2600 |
| 736 | Smith | Clerk | 790 | 12/17/1980 | 20 | 0 | 1000 |
| 765 | Martin | Sales\_man | 769 | 04/22/1981 | 30 | 1400 | 1250 |

To check date format use command

select sysdate from dual

Output

|  |
| --- |
| SYSDATE |
| 02/01/2017 |

Query List

1. Query to display Employee Name, Job, Hire Date, Employee Number; for each employee with the Employee Number appearing first.

Sql command

select ENO "EMPLOYEE NUMBER",ENAME"EMPLOYEE NAME",JOBTYPE,HIRE\_DATE"HIRE DATE" from employee

Output

|  |  |  |  |
| --- | --- | --- | --- |
| EMPLOYEE NUMBER | EMPLOYEE NAME | JOBTYPE | HIRE DATE |
| 787 | Adams | Clerk | 01/12/1983 |
| 778 | Clark | Manager | 06/09/1981 |
| 788 | Scott | Analyst | 12/09/1981 |
| 756 | Jones | Manager | 04/02/1981 |
| 793 | Miller | Clerk | 01/23/1982 |
| 790 | James | Clerk | 12/03/1981 |
| 784 | Turner | Sales\_man | 09/08/1981 |
| 783 | King | President | 11/17/1981 |
| 769 | Blake | Manager | 05/01/1981 |
| 752 | Ward | Sales\_man | 02/22/1981 |
| 749 | Allan | Sales\_man | 02/20/1981 |
| 792 | Ford | Analyst | 12/03/1981 |
| 736 | Smith | Clerk | 12/17/1980 |
| 765 | Martin | Sales\_man | 04/22/1981 |

1. Query to display unique Jobs from the Employee Table.

Sql command

select unique(JOBTYPE) from employee

Output

|  |
| --- |
| JOBTYPE |
| Clerk |
| Manager |
| Analyst |
| President |
| Sales\_man |

1. Query to display the Employee Name concatenated by a Job separated by a comma.

Sql command

select ENAME ||','||JOBTYPE "NAME AND JOB" from employee

Output

|  |
| --- |
| NAME AND JOB |
| Adams,Clerk |
| Clark,Manager |
| Scott,Analyst |
| Jones,Manager |
| Miller,Clerk |
| James,Clerk |
| Turner,Sales\_man |
| King,President |
| Blake,Manager |
| Ward,Sales\_man |
| Allan,Sales\_man |
| Ford,Analyst |
| Smith,Clerk |
| Martin,Sales\_man |

1. Query to display all the data from the Employee Table. Separate each Column by a comma and name the said column as THE\_OUTPUT.

Sql command

select ENO||','||ENAME||','||JOBTYPE||','||MANAGER||','||HIRE\_DATE||','||DNO||','|| COMMISSION ||','||SALARY "THE\_OUTPUT" from employee

Output

|  |
| --- |
| THE\_OUTPUT |
| 787,Adams,Clerk,778,01/12/1983,20,0,1150 |
| 778,Clark,Manager,783,06/09/1981,10,0,2900 |
| 788,Scott,Analyst,756,12/09/1981,20,0,2850 |
| 756,Jones,Manager,783,04/02/1981,20,0,2300 |
| 793,Miller,Clerk,788,01/23/1982,40,0,1300 |
| 790,James,Clerk,769,12/03/1981,30,0,950 |
| 784,Turner,Sales\_man,769,09/08/1981,30,0,1450 |
| 783,King,President,,11/17/1981,10,0,2950 |
| 769,Blake,Manager,783,05/01/1981,30,0,2870 |
| 752,Ward,Sales\_man,769,02/22/1981,30,500,1300 |
| 749,Allan,Sales\_man,769,02/20/1981,30,300,2000 |
| 792,Ford,Analyst,756,12/03/1981,20,0,2600 |
| 736,Smith,Clerk,790,12/17/1980,20,0,1000 |
| 765,Martin,Sales\_man,769,04/22/1981,30,1400,1250 |

1. Query to display the Employee Name and Salary of all the employees earning more than $2850.

Sql command

select ENAME,SALARY from employee where SALARY>2850

Output

|  |  |
| --- | --- |
| ENAME | SALARY |
| Clark | 2900 |
| King | 2950 |
| Blake | 2870 |
|  |  |

1. Query to display Employee Name and Department Number for the Employee No= 7900.

Sql command

select ENAME,DNO from employee where ENO=790

Output

|  |  |
| --- | --- |
| ENAME | DNO |
| James | 30 |

1. Query to display Employee Name and Salary for all employees whose salary is not in the range of $1500 and $2850.

Sql command

select ENAME,SALARY from employee where SALARY<1500 OR SALARY>2850

Output

|  |  |
| --- | --- |
| ENAME | SALARY |
| Adams | 1150 |
| Clark | 2900 |
| Miller | 1300 |
| James | 950 |
| Turner | 1450 |
| King | 2950 |
| Blake | 2870 |
| Ward | 1300 |
| Smith | 1000 |
| Martin | 1250 |

1. Query to display Employee Name and Department No. of all the employees in Dept 10 and Dept 30 in the alphabetical order by name.

Sql command

select ENAME,DNO from employee where DNO=10 OR DNO=30 order by ENAME

Output

|  |  |
| --- | --- |
| ENAME | DNO |
| Allan | 30 |
| Blake | 30 |
| Clark | 10 |
| James | 30 |
| King | 10 |
| Martin | 30 |
| Turner | 30 |
| Ward | 30 |

1. Query to display Name and Hire Date of every Employee who was hired in 1981.

Sql command

select ENAME,HIRE\_DATE from employee where HIRE\_DATE LIKE '%1981'

Output

|  |  |
| --- | --- |
| ENAME | HIRE\_DATE |
| Clark | 06/09/1981 |
| Scott | 12/09/1981 |
| Jones | 04/02/1981 |
| James | 12/03/1981 |
| Turner | 09/08/1981 |
| King | 11/17/1981 |
| Blake | 05/01/1981 |
| Ward | 02/22/1981 |
| Allan | 02/20/1981 |
| Ford | 12/03/1981 |
| Martin | 04/22/1981 |

1. Query to display Name and Job of all employees who don’t have a current Manager.

Sql command

select ENAME,JOBTYPE from employee where MANAGER IS NULL

Output

|  |  |
| --- | --- |
| ENAME | JOBTYPE |
| King | President |

1. Query to display the Name, Salary and Commission for all the employees who earn commission.

Sql command

select ENAME,SALARY,COMMISSION from employee where COMMISSION>0

Output

|  |  |  |
| --- | --- | --- |
| ENAME | SALARY | COMMISSION |
| Ward | 1300 | 500 |
| Allan | 2000 | 300 |
| Martin | 1250 | 1400 |

1. Sort the data in descending order of Salary and Commission.

Sql command

SELECT \* from employee ORDER BY SALARY DESC,COMMISSION DESC

Output

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ENO | ENAME | JOBTYPE | MANAGER | HIRE\_DATE | DNO | COMMISSION | SALARY |
| 783 | King | President | - | 11/17/1981 | 10 | 0 | 2950 |
| 778 | Clark | Manager | 783 | 06/09/1981 | 10 | 0 | 2900 |
| 769 | Blake | Manager | 783 | 05/01/1981 | 30 | 0 | 2870 |
| 788 | Scott | Analyst | 756 | 12/09/1981 | 20 | 0 | 2850 |
| 792 | Ford | Analyst | 756 | 12/03/1981 | 20 | 0 | 2600 |
| 756 | Jones | Manager | 783 | 04/02/1981 | 20 | 0 | 2300 |
| 749 | Allan | Sales\_man | 769 | 02/20/1981 | 30 | 300 | 2000 |
| 784 | Turner | Sales\_man | 769 | 09/08/1981 | 30 | 0 | 1450 |
| 752 | Ward | Sales\_man | 769 | 02/22/1981 | 30 | 500 | 1300 |
| 793 | Miller | Clerk | 788 | 01/23/1982 | 40 | 0 | 1300 |
| 765 | Martin | Sales\_man | 769 | 04/22/1981 | 30 | 1400 | 1250 |
| 787 | Adams | Clerk | 778 | 01/12/1983 | 20 | 0 | 1150 |
| 736 | Smith | Clerk | 790 | 12/17/1980 | 20 | 0 | 1000 |
| 790 | James | Clerk | 769 | 12/03/1981 | 30 | 0 | 950 |

1. Query to display Name of all the employees where the third letter of their name is ‘A’.

Sql command

SELECT ENAME from employee where ENAME LIKE '\_\_a%' OR ENAME LIKE '\_\_a%'

Output

|  |
| --- |
| ENAME |
| Adams |
| Clark |
| Blake |

1. Query to display Name of all employees either have two ‘R’s or have two ‘A’s in their name and are either in Dept No = 30 or their Manger’s Employee No = 778.

Sql command

select ENAME from employee where ((ENAME LIKE '%r%r%' OR ENAME LIKE '%r%r%') OR (ENAME LIKE 'A%a%' OR ENAME LIKE '%a%a%')) AND (DNO=30 OR MANAGER=778)

Output

|  |
| --- |
| ENAME |
| Adams |
| Turner |
| Allan |

1. Query to display Name, Salary and Commission for all employees whose Commission Amount is greater than their Salary increased by 5%.

Sql command

select ENAME,SALARY,COMMISSION from employee where COMMISSION> (SALARY\*1.05)

Output

|  |  |  |
| --- | --- | --- |
| ENAME | SALARY | COMMISSION |
| Martin | 1250 | 1400 |

1. Query to display the Current Date.

Sql command

select sysdate from dual

Output

|  |
| --- |
| SYSDATE |
| 02/08/2017 |

1. Query to display Name, Hire Date and Salary Review Date which is the 1st Monday after six months of employment.

Sql command

select ENAME,HIRE\_DATE,add\_months(HIRE\_DATE,6)"SALARY UPDATION DATE" from employee

Output

|  |  |  |
| --- | --- | --- |
| ENAME | HIRE\_DATE | SALARY UPDATION DATE |
| Adams | 01/12/1983 | 07/12/1983 |
| Clark | 06/09/1981 | 12/09/1981 |
| Scott | 12/09/1981 | 06/09/1982 |
| Jones | 04/02/1981 | 10/02/1981 |
| Miller | 01/23/1982 | 07/23/1982 |
| James | 12/03/1981 | 06/03/1982 |
| Turner | 09/08/1981 | 03/08/1982 |
| King | 11/17/1981 | 05/17/1982 |
| Blake | 05/01/1981 | 11/01/1981 |
| Ward | 02/22/1981 | 08/22/1981 |
| Allan | 02/20/1981 | 08/20/1981 |
| Ford | 12/03/1981 | 06/03/1982 |
| Smith | 12/17/1980 | 06/17/1981 |
| Martin | 04/22/1981 | 10/22/1981 |

1. Query to display Name and calculate the number of months between today and the date each employee was hired.

Sql command

select ENAME,abs(floor(months\_between(HIRE\_DATE,sysdate))) "MONTHS WORKED TILL NOW" from employee

Output

|  |  |
| --- | --- |
| ENAME | MONTHS WORKED TILL NOW |
| Adams | 410 |
| Clark | 429 |
| Scott | 423 |
| Jones | 431 |
| Miller | 421 |
| James | 423 |
| Turner | 426 |
| King | 423 |
| Blake | 430 |
| Ward | 432 |
| Allan | 432 |
| Ford | 423 |
| Smith | 434 |
| Martin | 430 |

1. Query to display the following for each employee <E-Name> earns < Salary> monthly but wants < 3 \* Current Salary >. Label the Column as Dream Salary.

Sql command

select ENAME||' earns '||SALARY||' monthly but wants '||3\*SALARY "DREAM SALARY"from employee

Output

|  |
| --- |
| DREAM SALARY |
| Adams earns 1150 monthly but wants 3450 |
| Clark earns 2900 monthly but wants 8700 |
| Scott earns 2850 monthly but wants 8550 |
| Jones earns 2300 monthly but wants 6900 |
| Miller earns 1300 monthly but wants 3900 |
| James earns 950 monthly but wants 2850 |
| Turner earns 1450 monthly but wants 4350 |
| King earns 2950 monthly but wants 8850 |
| Blake earns 2870 monthly but wants 8610 |
| Ward earns 1300 monthly but wants 3900 |
| Allan earns 2000 monthly but wants 6000 |
| Ford earns 2600 monthly but wants 7800 |
| Smith earns 1000 monthly but wants 3000 |
| Martin earns 1250 monthly but wants 3750 |

1. Query to display Name with the 1st letter capitalized and all other letter lower case and length of their name of all the employees whose name starts with ‘J’, ’A’ and ‘M’.

Sql command

select Initcap(ENAME),length(ENAME) from employee where (ENAME LIKE 'J%' OR ENAME LIKE 'A%' OR ENAME LIKE 'M%')

Output

|  |  |
| --- | --- |
| INITCAP(ENAME) | LENGTH(ENAME) |
| Adams | 5 |
| Jones | 5 |
| Miller | 6 |
| James | 5 |
| Allan | 5 |
| Martin | 6 |

1. Query to display Name, Hire Date and Day of the week on which the employee started.

Sql command

select ENAME,HIRE\_DATE,to\_char(HIRE\_DATE,'DAY')"DAY OF THE WEEK ON HIRING DATE" from employee

Output

|  |  |  |
| --- | --- | --- |
| ENAME | HIRE\_DATE | DAY OF THE WEEK ON HIRING DATE |
| Adams | 01/12/1983 | WEDNESDAY |
| Clark | 06/09/1981 | TUESDAY |
| Scott | 12/09/1981 | WEDNESDAY |
| Jones | 04/02/1981 | THURSDAY |
| Miller | 01/23/1982 | SATURDAY |
| James | 12/03/1981 | THURSDAY |
| Turner | 09/08/1981 | TUESDAY |
| King | 11/17/1981 | TUESDAY |
| Blake | 05/01/1981 | FRIDAY |
| Ward | 02/22/1981 | SUNDAY |
| Allan | 02/20/1981 | FRIDAY |
| Ford | 12/03/1981 | THURSDAY |
| Smith | 12/17/1980 | WEDNESDAY |
| Martin | 04/22/1981 | WEDNESDAY |

1. Query to display Name, Department Name and Department No for all the employees.

Sql command

select ENAME,E.DNO,D.DNAME from employee E,department D where E.DNO=D.DNO

Output

|  |  |  |
| --- | --- | --- |
| ENAME | DNO | DNAME |
| Adams | 20 | Research |
| Clark | 10 | Accounting |
| Scott | 20 | Research |
| Jones | 20 | Research |
| Miller | 40 | Operations |
| James | 30 | Sales |
| Turner | 30 | Sales |
| King | 10 | Accounting |
| Blake | 30 | Sales |
| Ward | 30 | Sales |
| Allan | 30 | Sales |
| Ford | 20 | Research |
| Smith | 20 | Research |
| Martin | 30 | Sales |

1. Query to display Unique Listing of all Jobs that are in Department # 30.

Sql command

select unique(JOBTYPE) from employee where DNO=30

Output

|  |
| --- |
| JOBTYPE |
| Clerk |
| Manager |
| Sales\_man |

1. Query to display Name, Dept Name of all employees who have an ‘A’ in their name

Sql command

select ENAME,DNAME from EMPLOYEE,DEPARTMENT where (EMPLOYEE.DNO=DEPARTMENT.DNO) AND (ENAME LIKE '%a%' OR ENAME LIKE 'A%')

Output

|  |  |
| --- | --- |
| ENAME | DNAME |
| Adams | Research |
| Clark | Accounting |
| James | Sales |
| Blake | Sales |
| Ward | Sales |
| Allan | Sales |
| Martin | Sales |

1. 25.Query to display Name, Job, Department No. and Department name for all the employees working at the Dallas location.

Sql command

select ENAME,JOBTYPE,e.DNO,DNAME from EMPLOYEE e, DEPARTMENT d where e.dno=d.dno and d.location='Dallas'

Output

|  |
| --- |
|  |

|  |  |  |  |
| --- | --- | --- | --- |
| ENAME | JOBTYPE | DNO | DNAME |
| Adams | Clerk | 20 | Research |
| Scott | Analyst | 20 | Research |
| Jones | Manager | 20 | Research |
| Ford | Analyst | 20 | Research |
| Smith | Clerk | 20 | Research |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

1. Query to display Name and Employee no. Along with their Manger’s Name and the Manager’s employee no; along with the Employees’ Name who do not have a Manager.

Sql command

select E.ENAME,E.ENO,M.ENAME "MANAGER NAME",M.ENO "MANAGER NO" from EMPLOYEE E LEFT OUTER JOIN EMPLOYEE M ON M.ENO=E.MANAGER

Output

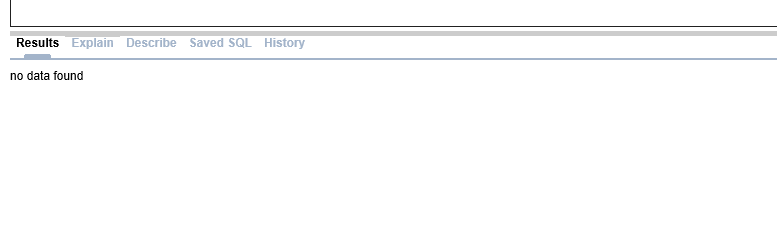
|  |  |  |  |
| --- | --- | --- | --- |
| ENAME | DNO | MANAGER NAME | MANAGER NO |
| Adams | 20 | Clark | 778 |
| Miller | 40 | Scott | 788 |
| Ford | 20 | Jones | 756 |
| Scott | 20 | Jones | 756 |
| Smith | 20 | James | 790 |
| Blake | 30 | King | 783 |
| Jones | 20 | King | 783 |
| Clark | 10 | King | 783 |
| Martin | 30 | Blake | 769 |
| Allan | 30 | Blake | 769 |
| Ward | 30 | Blake | 769 |
| Turner | 30 | Blake | 769 |
| James | 30 | Blake | 769 |
| King | 10 | - | - |

1. Query to display Name, Dept No. And Salary of any employee whose department No. and salary matches both the department no. And the salary of any employee who earns a commission.

Sql command

select ENAME,DNO,SALARY from employee e1 where (DNO,SALARY) in (select DNO,SALARY from EMPLOYEE E2 where commission>0 AND e1.ENAME!=ENAME)

Output



1. Query to display Name and Salaries represented by asterisks, where each asterisk (\*) signifies $100.

Sql command

select ENAME,rpad('\*',floor(SALARY/100),'\*') "PRINT ASTERISK" from EMPLOYEE

Output

|  |  |
| --- | --- |
| ENAME | PRINT ASTERISK |
| Adams | \*\*\*\*\*\*\*\*\*\*\* |
| Clark | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| Scott | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| Jones | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| Miller | \*\*\*\*\*\*\*\*\*\*\*\*\* |
| James | \*\*\*\*\*\*\*\*\* |
| Turner | \*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| King | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| Blake | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| Ward | \*\*\*\*\*\*\*\*\*\*\*\*\* |
| Allan | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| Ford | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| Smith | \*\*\*\*\*\*\*\*\*\* |
| Martin | \*\*\*\*\*\*\*\*\*\*\*\* |

1. Query to display the Highest, Lowest, Sum and Average Salaries of all the employees

Sql command

select Max(salary)"Maximum Salary",Min(salary)"Minimum Salary",sum(salary)"Sum of salary",round(avg(salary))"Average Salary" from employee

Table

|  |  |  |  |
| --- | --- | --- | --- |
| Maximum Salary | Minimum Salary | Sum of salary | Average Salary |
| 2950 | 950 | 26870 | 1919 |

1. Query to display the number of employees performing the same Job type functions.

Sql command

select JOBTYPE,count(\*) "COUNT" from employee group by JOBTYPE

Table

|  |  |
| --- | --- |
| JOBTYPE | COUNT |
| Clerk | 4 |
| Manager | 3 |
| Analyst | 2 |
| President | 1 |
| Sales\_man | 4 |

1. Query to display the no. of managers without listing their names.

Sql command

select count(distinct MANAGER)"NUMBER OF MANAGERS" from employee

Table

|  |
| --- |
| NUMBER OF MANAGERS |
| 6 |

1. Query to display the Department Name, Location Name, No. of Employees and the average salary for all employees in that department.

Sql command

select DNAME"DEPARTMENT NAME",LOCATION, count(ENO)"NO. OF EMPLOYEES",round(avg(Salary)) "AVERAGE SALARY"from employee inner join

department on employee.dno=department.dno group by DNAME,LOCATION

Table

|  |  |  |  |
| --- | --- | --- | --- |
| DEPARTMENT NAME | LOCATION | NO. OF EMPLOYEES | AVERAGE SALARY |
| Research | Dallas | 5 | 1980 |
| Operations | Boston | 1 | 1300 |
| Sales | Chicago | 6 | 1637 |
| Accounting | New York | 2 | 2925 |

1. Query to display Name and Hire Date for all employees in the same dept. as Blake.

Sql command

select ENAME,HIRE\_DATE from employee where DNO=(select DNO from employee where ENAME='Blake')and ENAME!='Blake'

Table

|  |  |
| --- | --- |
| ENAME | HIRE\_DATE |
| James | 12/03/1981 |
| Turner | 09/08/1981 |
| Ward | 02/22/1981 |
| Allan | 02/20/1981 |
| Martin | 04/22/1981 |

1. Query to display the Employee No. And Name for all employees who earn more than the average salary.

Sql command

select ENO,ENAME from employee where SALARY>(select avg(SALARY) from employee)

Table

|  |  |
| --- | --- |
| ENO | ENAME |
| 778 | Clark |
| 788 | Scott |
| 756 | Jones |
| 783 | King |
| 769 | Blake |
| 749 | Allan |
| 792 | Ford |

1. Query to display Employee Number and Name for all employees who work in a department with any employee whose name contains a ‘T’.

Sql command

select ENO,ENAME from employee where DNO in (select DNO from employee where ENAME LIKE 'T%' OR ENAME LIKE '%t%')

Table

|  |  |
| --- | --- |
| ENO | ENAME |
| 736 | Smith |
| 792 | Ford |
| 756 | Jones |
| 788 | Scott |
| 787 | Adams |
| 765 | Martin |
| 749 | Allan |
| 752 | Ward |
| 769 | Blake |
| 784 | Turner |
| 790 | James |

1. Query to display the names and salaries of all employees who report to King.

Sql command

select ENAME,SALARY from employee where MANAGER=(select ENO from employee where ENAME='King')

Table

|  |  |
| --- | --- |
| ENAME | SALARY |
| Clark | 2900 |
| Jones | 2300 |
| Blake | 2870 |

1. Query to display the department no, name and job for all employees in the Sales department.

Sql command

select DNO"DEPARTMENT NO.",ENAME "NAME",JOBTYPE from employee e where e.DNO=(select DNO from department where DNAME='Sales')

Table

|  |  |  |
| --- | --- | --- |
| DEPARTMENT NO. | NAME | JOBTYPE |
| 30 | James | Clerk |
| 30 | Turner | Sales\_man |
| 30 | Blake | Manager |
| 30 | Ward | Sales\_man |
| 30 | Allan | Sales\_man |
| 30 | Martin | Sales\_man |